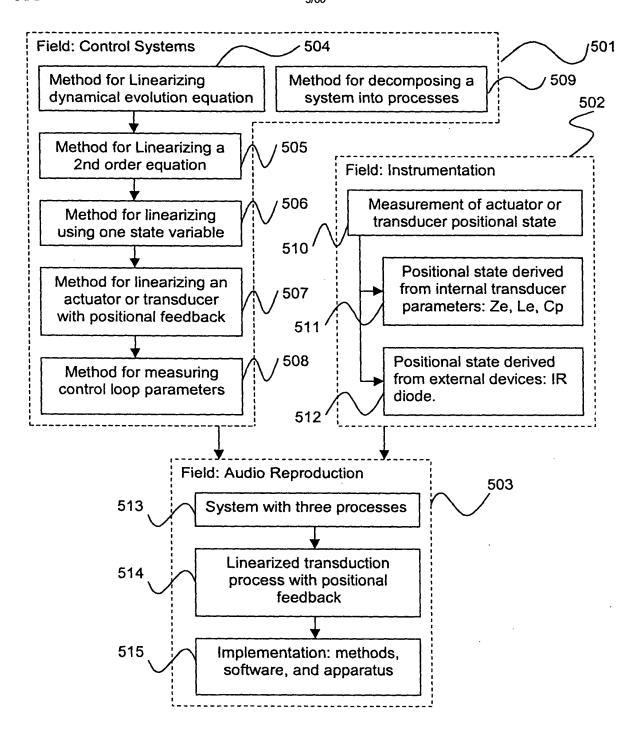
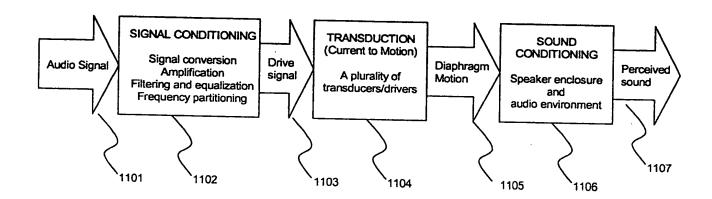


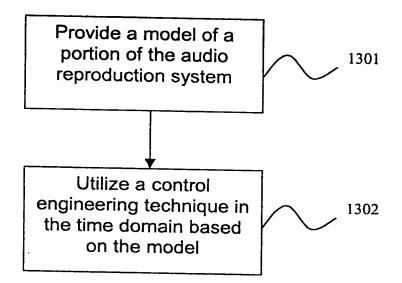
Title: "Control System"
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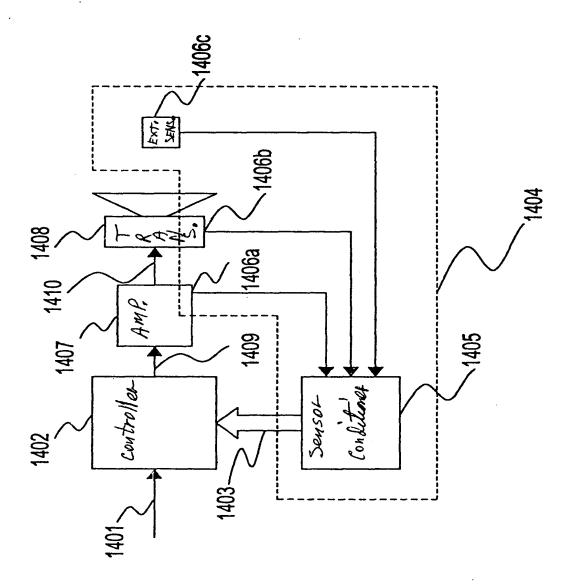




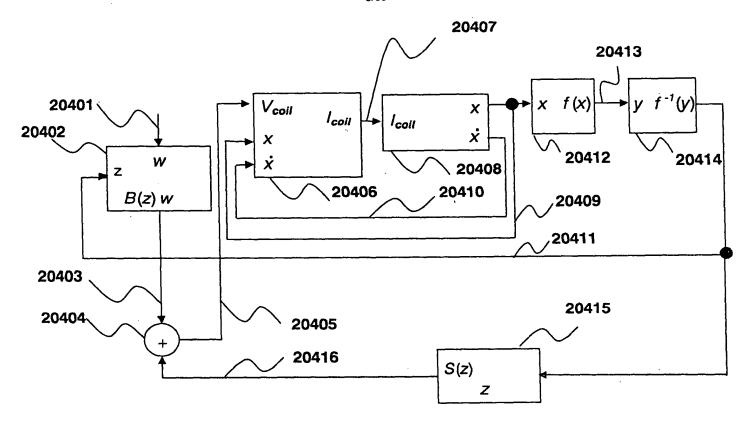
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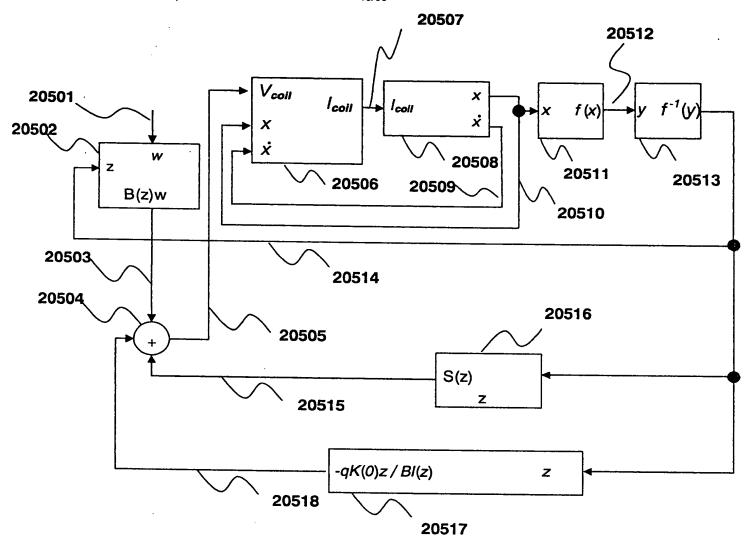


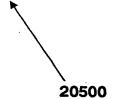
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 9/66



20400

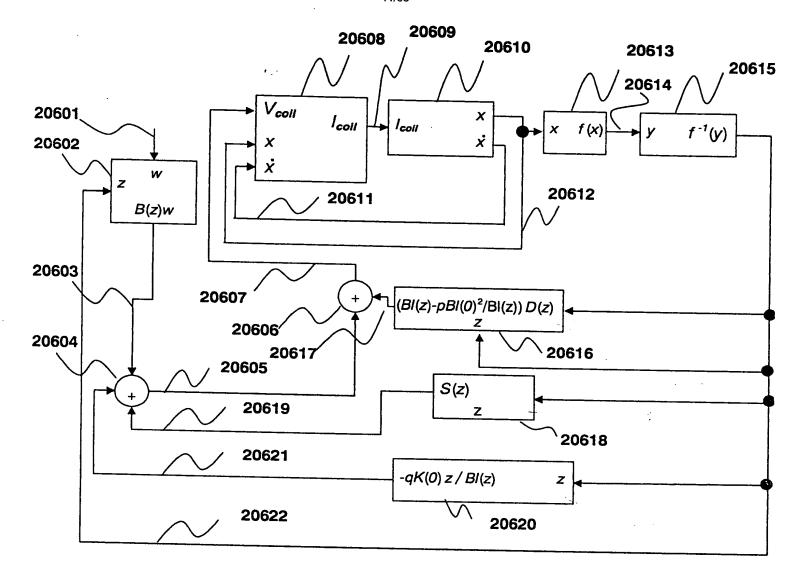
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 10/66





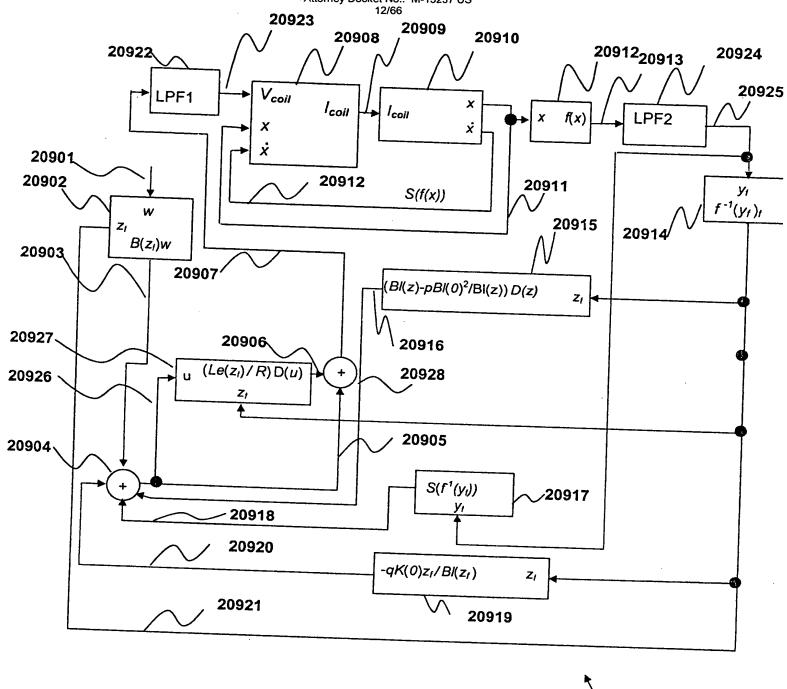
Applicant(s): Raymond Browning et al. Title: "Control System" Attomey Docket No.: M-15237 US

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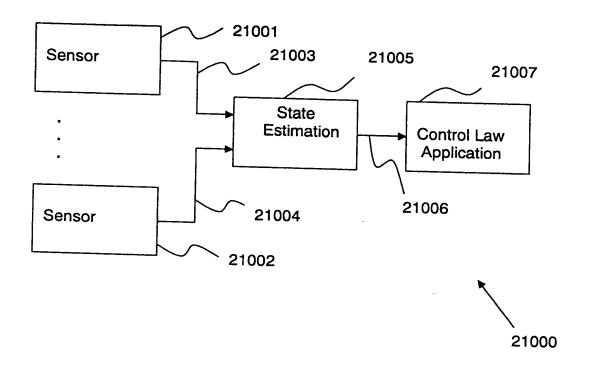


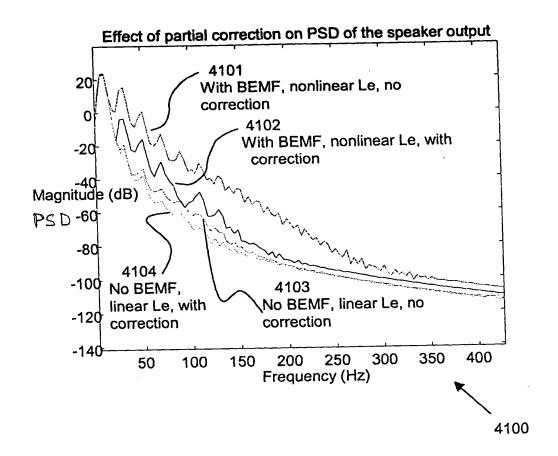


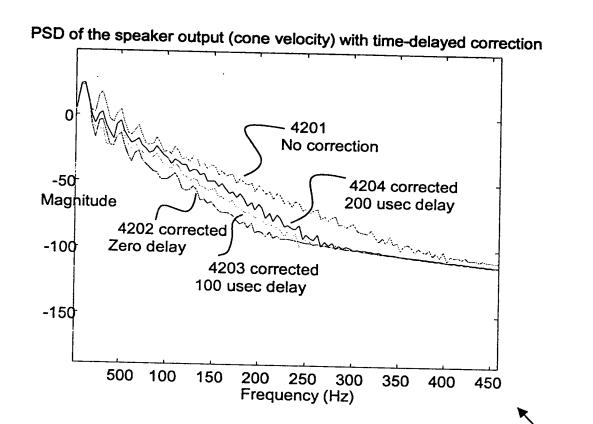
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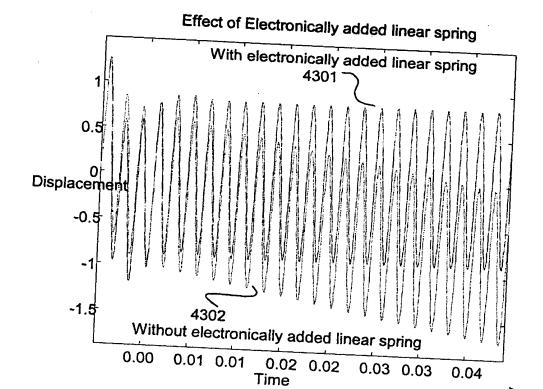
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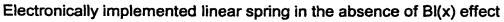


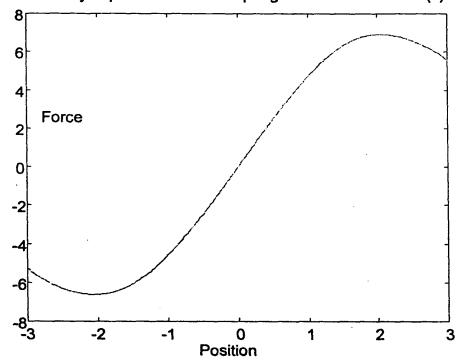
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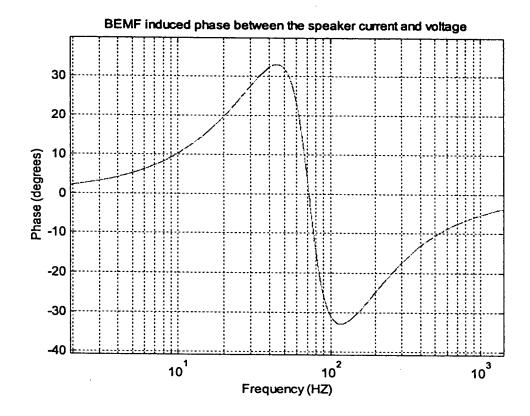
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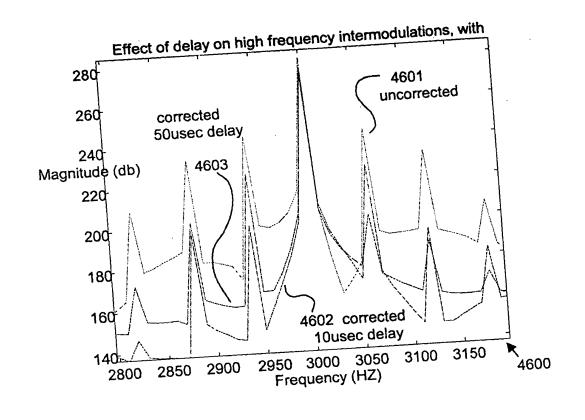
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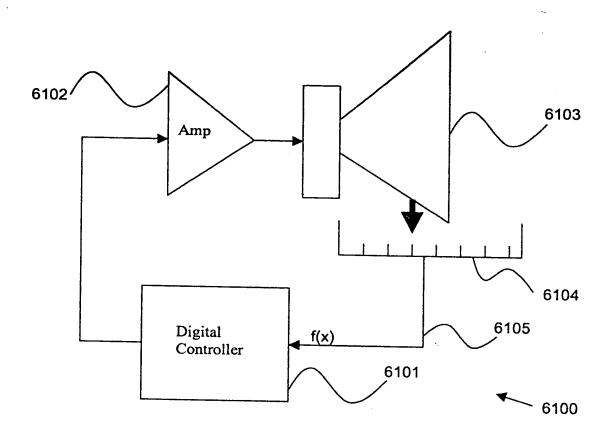


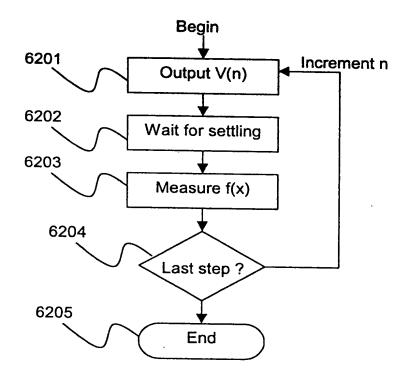
Applicant(s): Raymond Browning et al.
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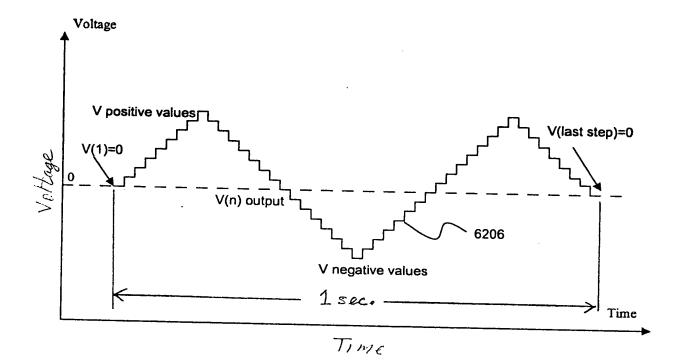




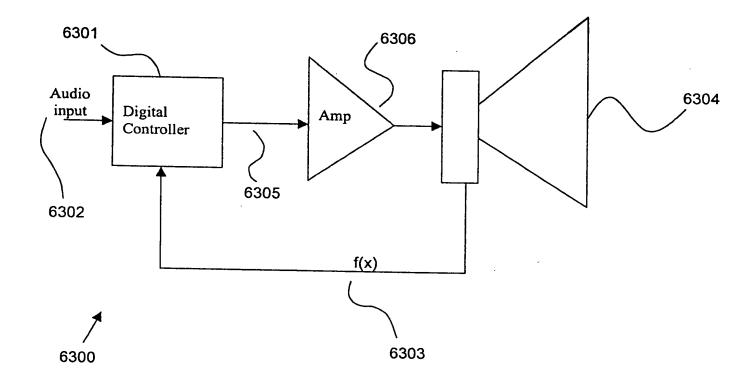
Applicant(s): Raymond Browning et al.
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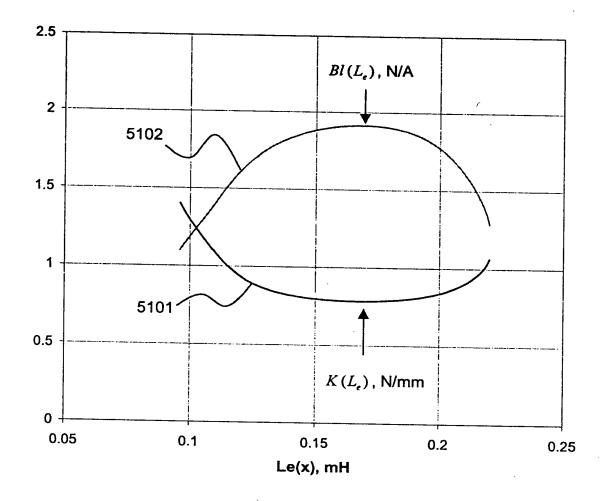




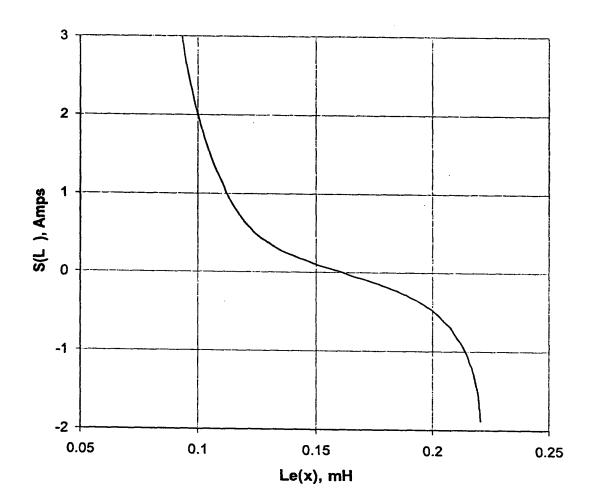
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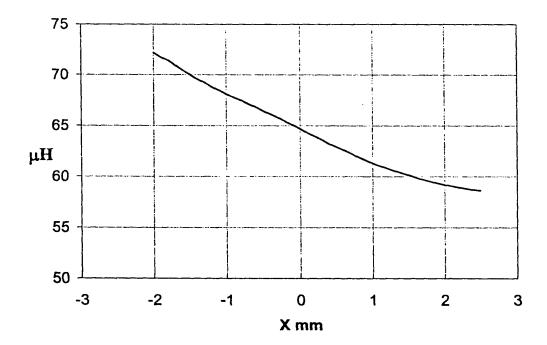


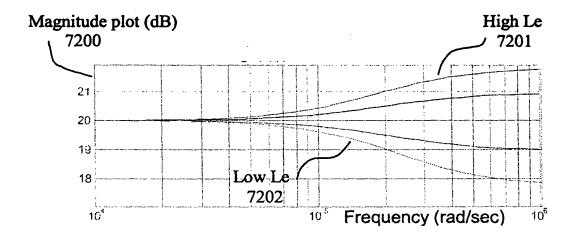
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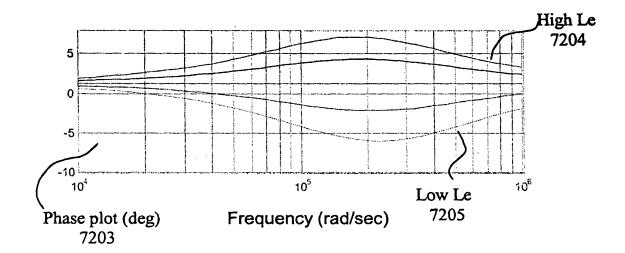
Le vs. Coil Displacement at 43 kHz



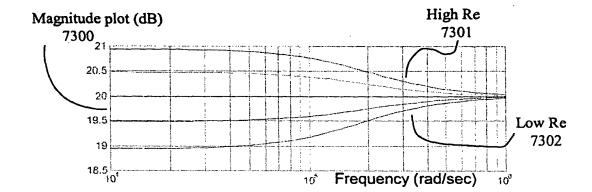


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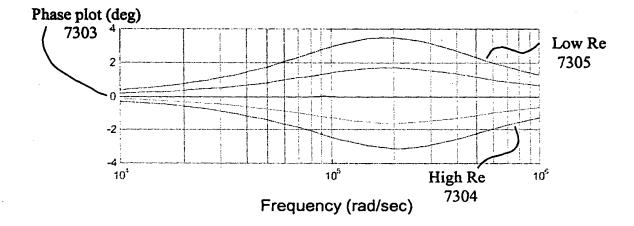


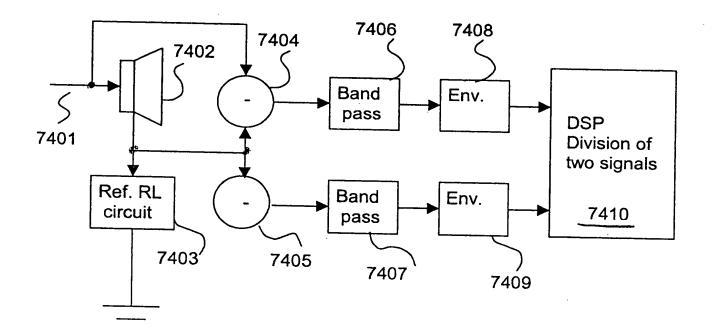


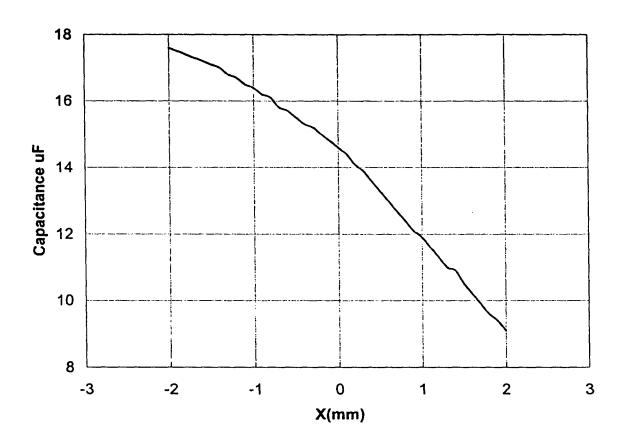
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 29/66



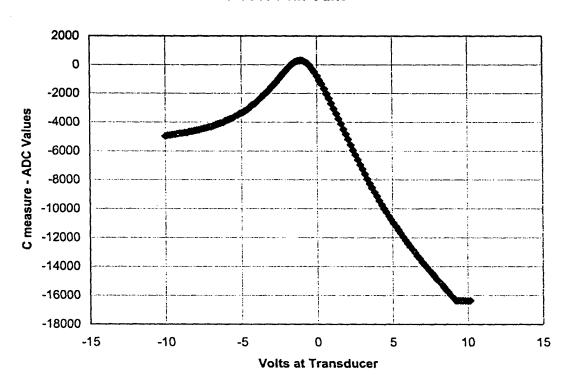
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 30/66



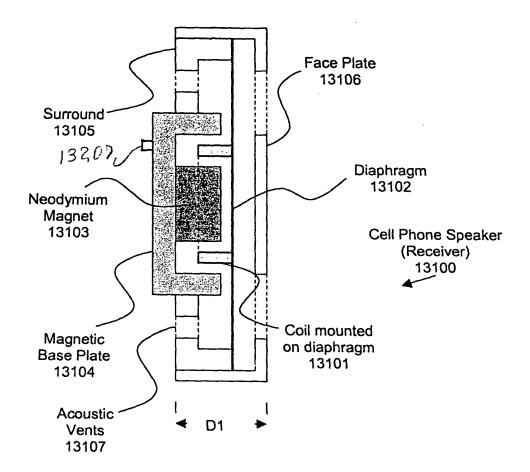




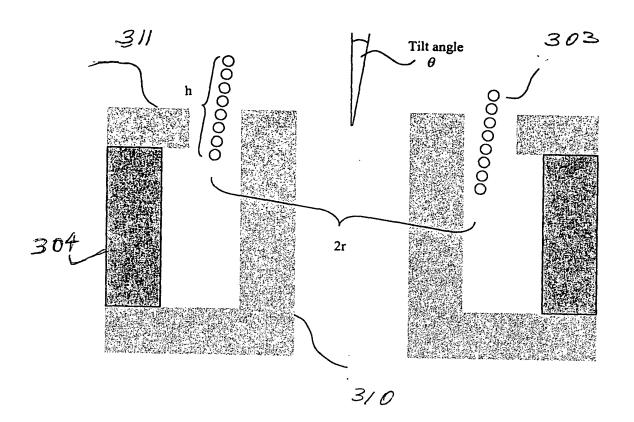
## C Test with Cant



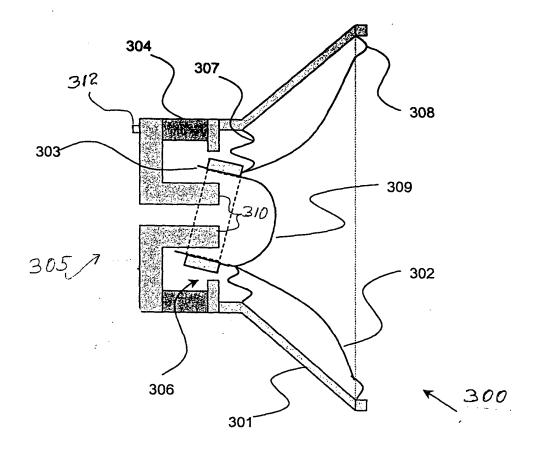
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 34/66

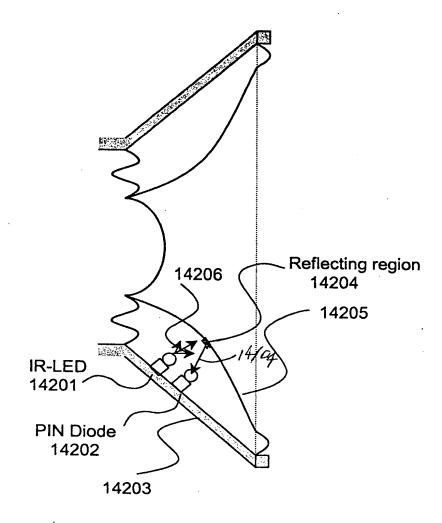


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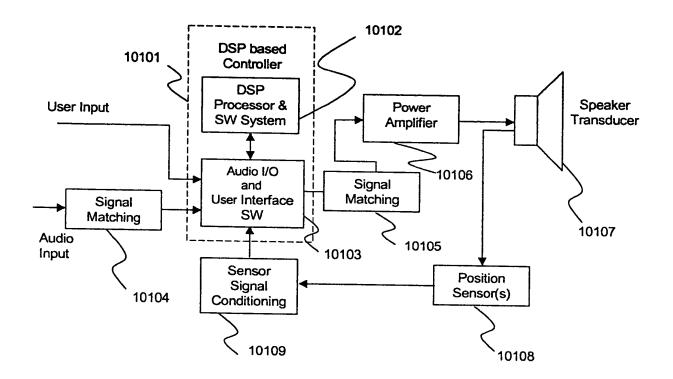


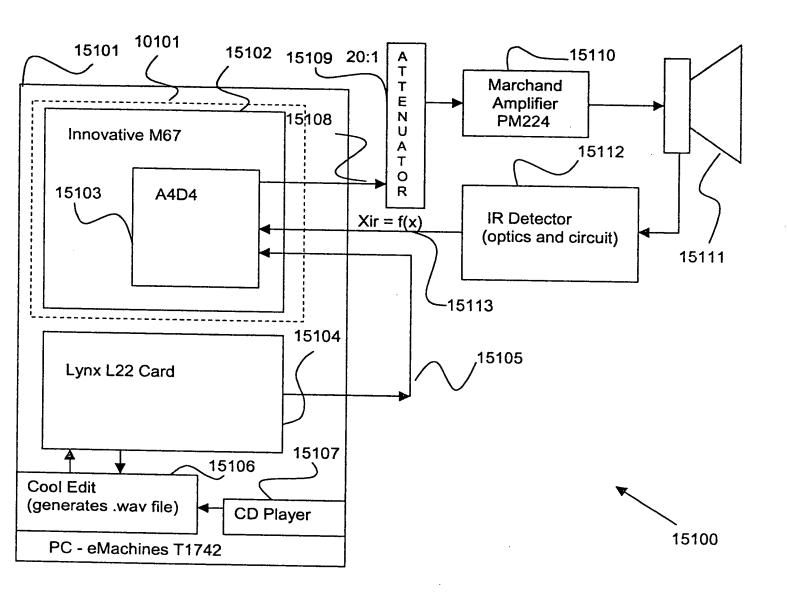
Applicant(s): Raymond Browning et al.
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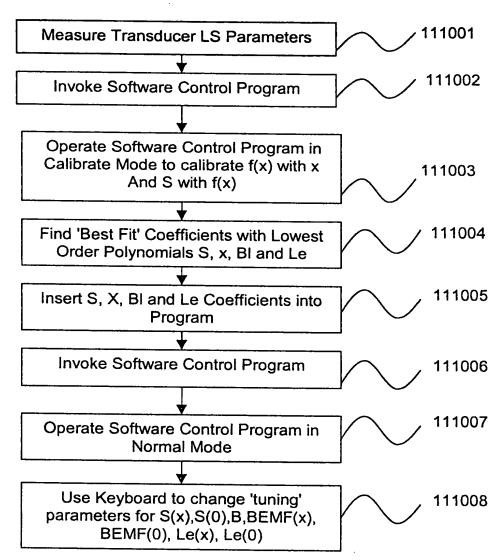




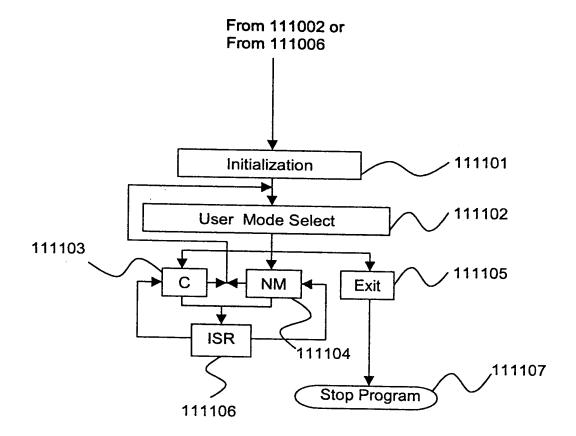
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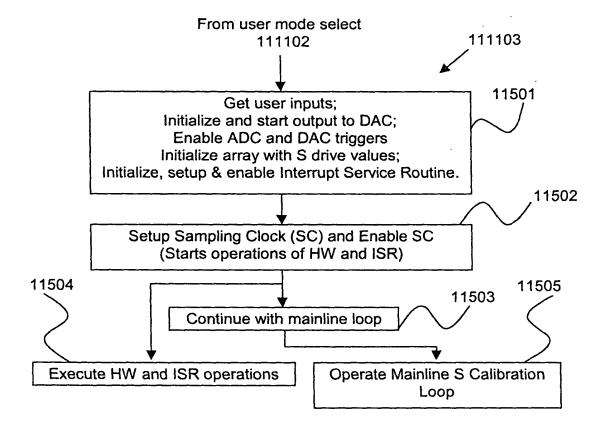




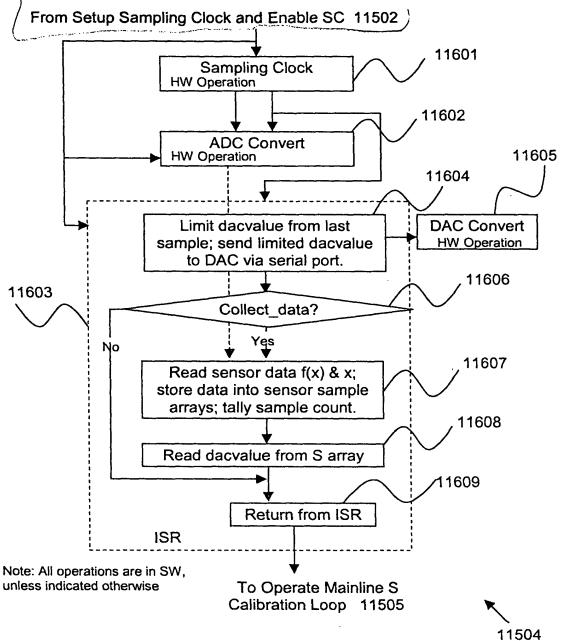
LS = Large Signal

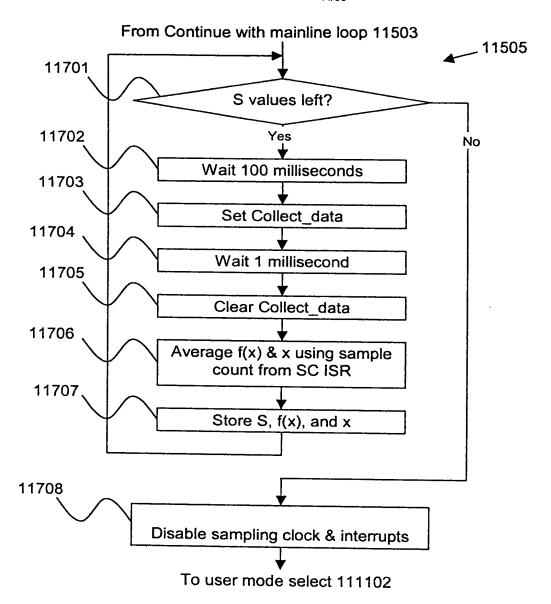


NM: Normal Mode C: Calibration mode

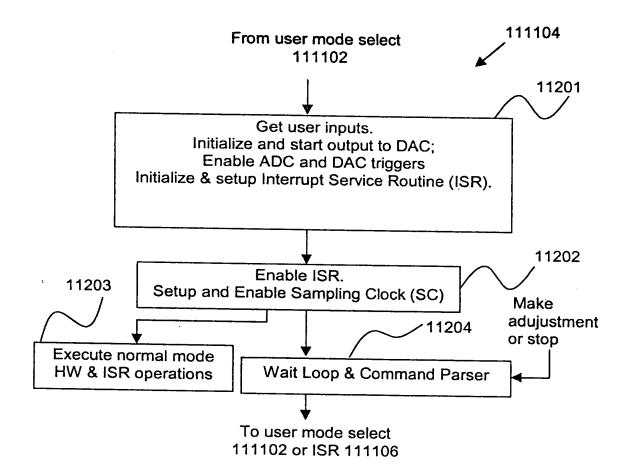


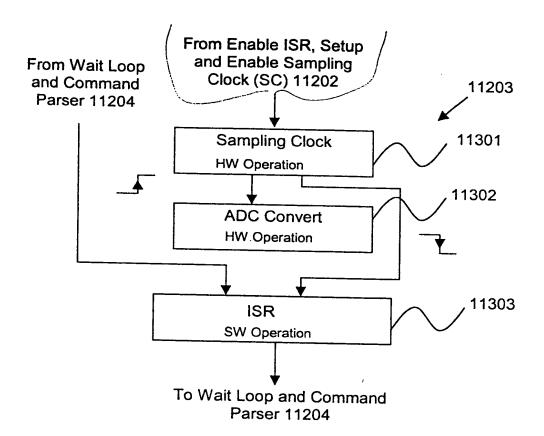
43/66





All operations are in SW





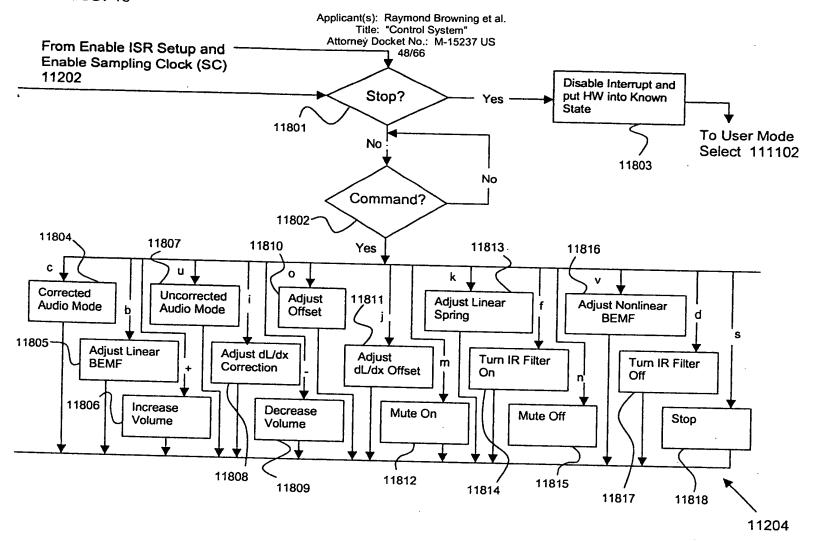
SW, unless indicated

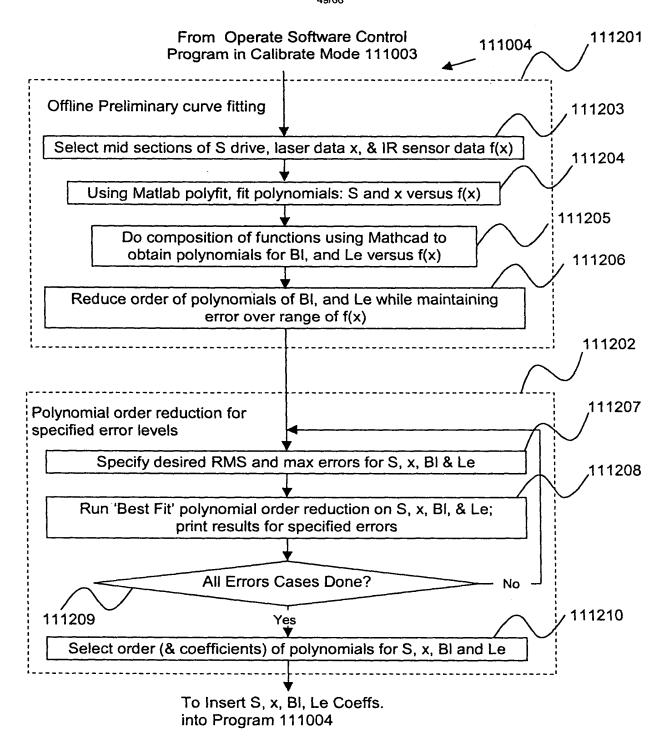
otherwise

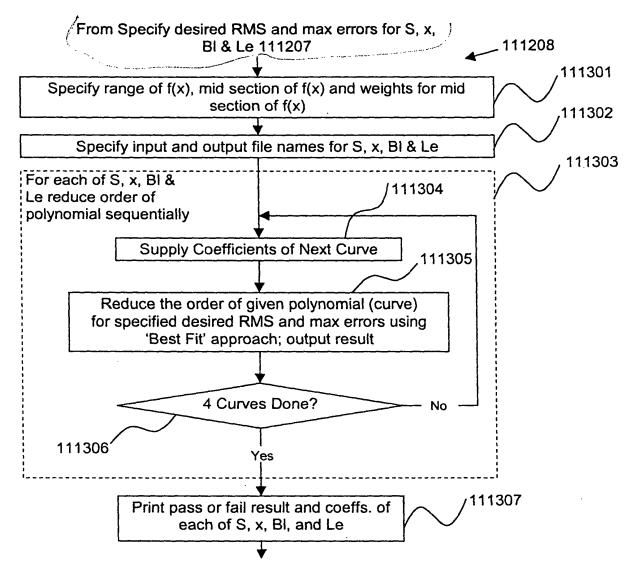
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11303 From Sampling Clock 11301 and Wait Loop & Command Parser 11204 11402 11401 Limit dacvalue from last sample; send limited dacvalue DAC Convert **HW Operation** to DAC via serial port 11403 Read sensor data f(x) from ADC 11404 Filter sensor data (to reduce noise) 11405 Read audio sample from ADC 11406 Compute S, BI, B and Le from f(x) 11407 Compute df(x)/dt from f(x)11408 Compute corrected Vcoil dacvalue = Vcoil 11409 11410 Return from ISR All operations are in

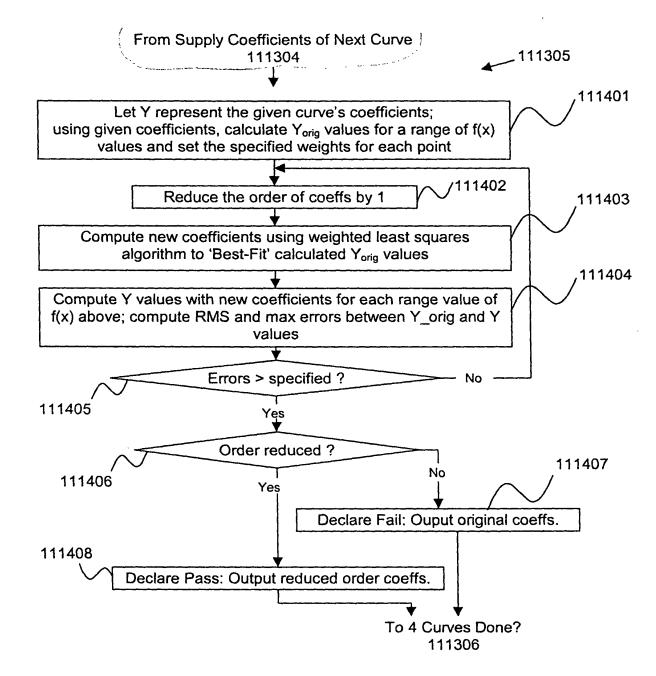
To Wait Loop and

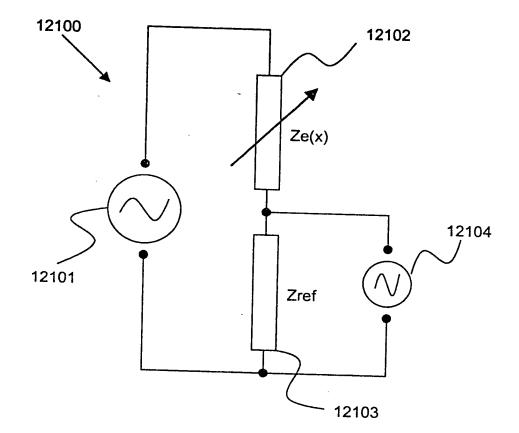


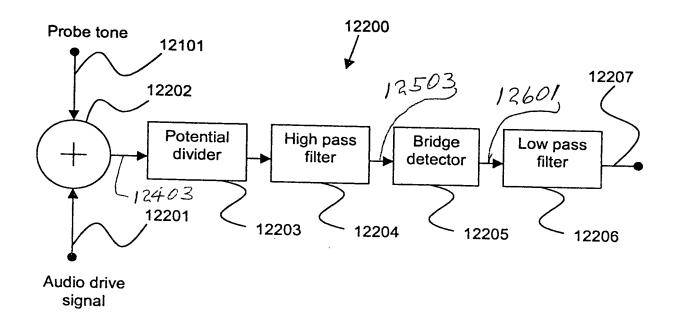




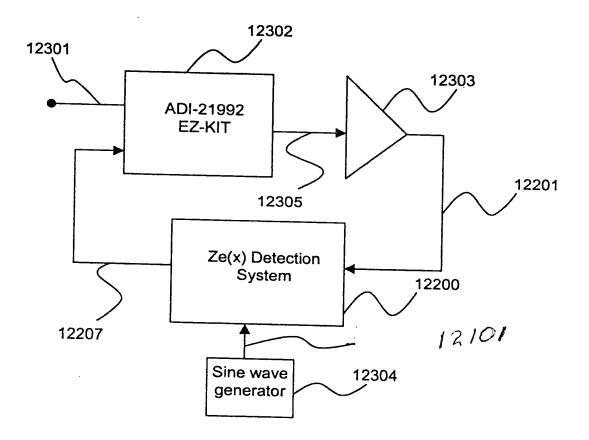
To All Errors Cases Done? 111209

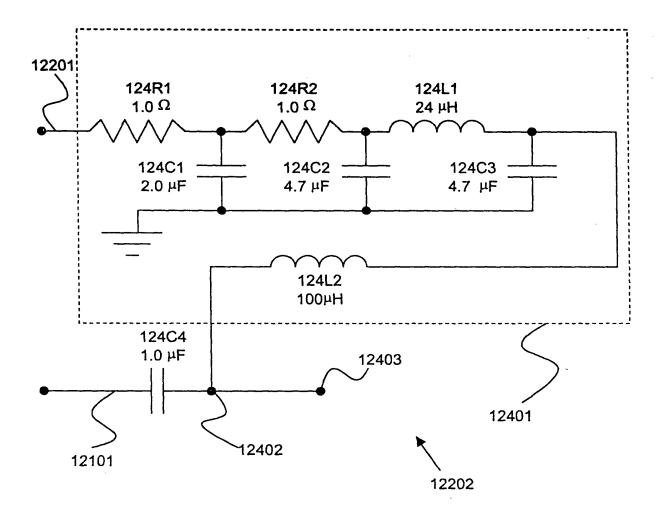


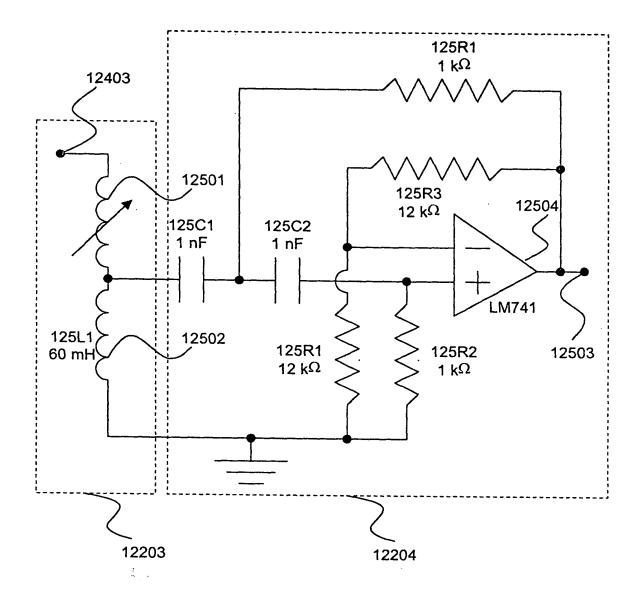


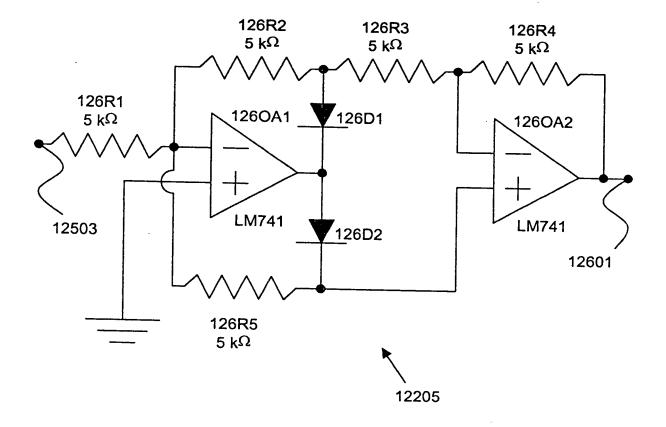


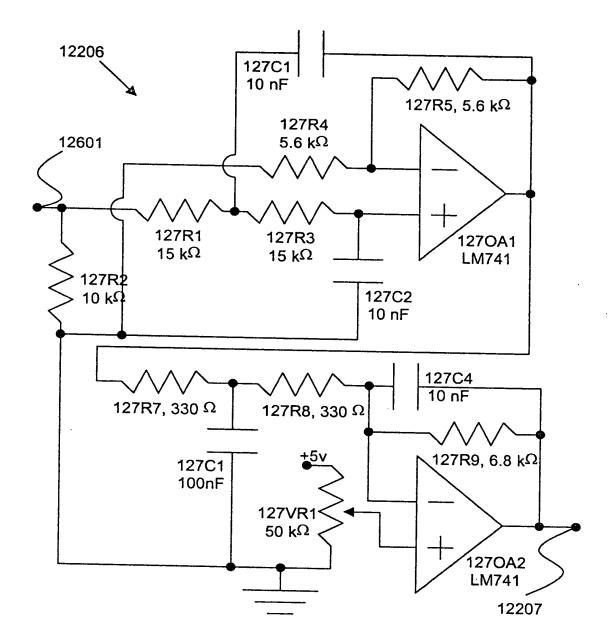
Applicant(s): Raymond Browning et al. Title: "Control System" Attorney Docket No.: M-15237 US 54/66

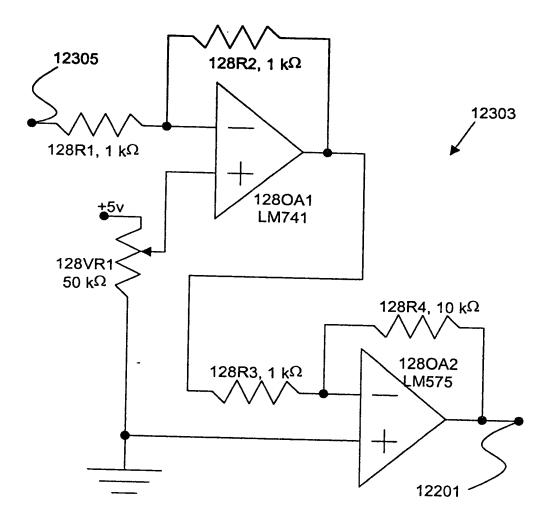




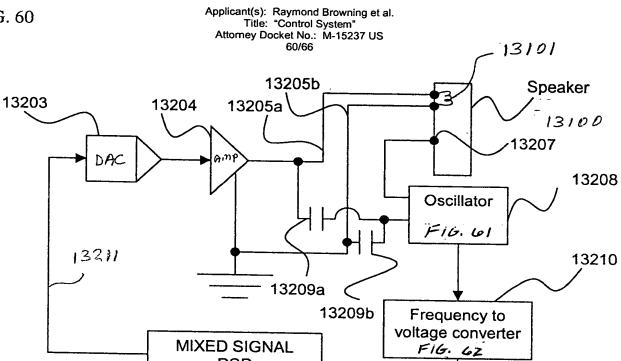








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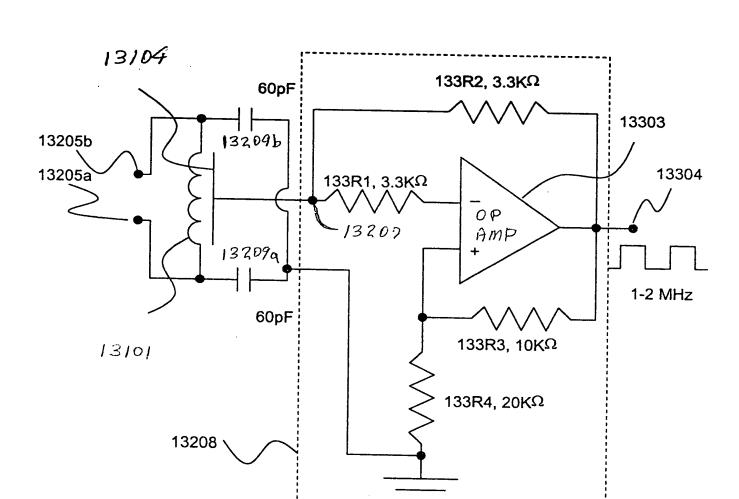
Cp(x)

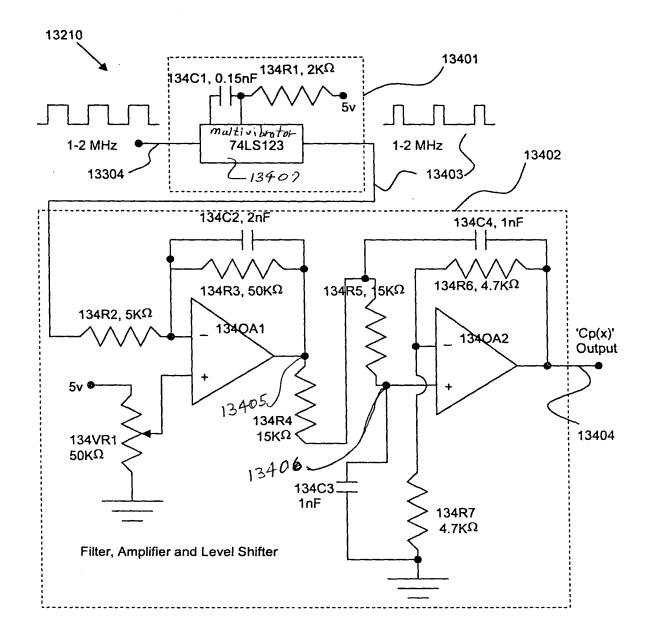
13202

13404

DSP AD21992

13201





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